

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Yoshihiro USUI et al.

Group Art Unit: Unknown

Appln. No.

: 10/538,766

(National Stage of PCT/JP2003/015968)

Examiner: Unknown

I.A. Filed

: December 12, 2003

Confirmation No.: 5553

For

: 3-SUBSTITUTED-4-PYRIMIDONE DERIVATIVES

#### INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
U.S. Patent and Trademark Office
Customer Service Window, Mail Stop <u>Amendment</u>
Randolph Building
401 Dulany Street
Alexandria VA 22314

Sir:

In accordance with the duty of disclosure under 37 C.F.R. 1.56, 1.97, and 1.98, Applicants hereby bring the following information to the attention of the Examiner, which includes information cited and discussed in the specification, the International Search Report, and the International Preliminary Examination Report issued in connection with International Application No. PCT/JP2003/015968. Copies of the International Search Report (in English), and the International Preliminary Report on Patentability (in English) were enclosed with the papers when entering the National Stage on June 10, 2005. The Examiner is invited to review these materials to inspect the relevance indicated during international examination with respect to the documents cited therein.

G. GLENNER et al., Biochemical and Biophysical Research Communications, Vol. 120, No. 3, 1984, pp. 885-890, which is cited on page 1 of the specification;

- C.L. MASTERS et al., The EMBO Journal, Vol. 4, No. 11, 1985, pp. 2757-2763, which is cited on page 1 of the specification;
- C.L. MASTERS et al., Proc. Natl. Acad. Sci. USA, Vol. 82, June 1985, pp. 4245-4249, which is cited on page 1 of the specification;
- C.M. WISCHIK et al., Proc. Natl. Acad. Sci. USA, Vol. 85, June 1988, pp. 4506-4510, which is cited on page 2 of the specification;
- J. KONDO et al., Neuron, Vol. 1, November 1988, pp. 827-834, which is cited on page 2 of the specification;
- R. SHERRINGTON et al., Nature, Vol., 375, June 29, 1995, pp. 754-760, which is cited on page 2 of the specification;
- E. LEVY-LAHAD et al., Science, Vol. 269, August 18, 1995, pp. 973-977, which is cited on page 2 of the specification;
- E.I. ROGAEV et al., Nature, Vol. 376, August 31, 1995, pp. 775-778, which is cited on page 2 of the specification;
- D.R. BORCHELT et al., Neuron, Vol. 17, November 1996, pp. 1005-1013, which is cited on page 2 of the specification;
- T. TOMITA et al., Proc. Natl. Acad. Sci. USA, Vol. 94, March 1997, pp. 2025-2030, which is cited on page 2 of the specification;
- Sai-Shin Igaku, Vol. 49, No. 9, 1994, pp. 1506-1512, which is cited on page 2 of the specification;
- D.W. DICKSON et al., Society for Neuroscience Abstracts, Vol. 17, 1991, pp. 1445, which is cited on page 2 of the specification;

R. SIMAN et al., The Journal of Neuroscience, Vol. 10, No. 7, July 1990, pp. 2400-2411, which is cited on page 2 of the specification;

Shin-kei Shinpo, Vol. 34, 1990, pp. 343-349, which is cited on page 2 of the specification;

Tanpaku-shitu Kaku-san Koso, Vol. 41, 1996, pp. 1476-1483, which is cited on pages 2 and 3 of the specification;

Tanpaku-shitu Kaku-san Koso, Vol. 36, 1991, pp. 2-11, which is cited on page 2 of the specification;

Igaku no Ayumi, Vol. 158, No. 9, August 31, 1991, pp. 511-514, which is cited on page 2 of the specification;

Y. IHARA et al., J. Biochem., Vol. 99, 1986, pp. 1807-1810, which is cited on page 3 of the specification;

I. GRUNDKE-IQBAL et al., Proc. Natl. Acad. Sci. USA, Vol. 83, July 1986, pp. 4913-4917, which is cited on page 3 of the specification;

Seikagaku, Vol. 64, No. 5, pp. 308-312, which is cited on page 3 of the specification;

K. ISHIGURO et al., J. Biol. Chem., Vol. 267, No. 15, May 25, 1992, pp. 10897-10901, which is cited on page 4 of the specification;

JP HEI 6-239893, together with an English language abstract, which is cited on page 3 of the specification;

K. ISHIGURO et al., FEBS Lett., Vol. 325, July 1993, pp. 167-172, which is cited on page 3 of the specification;

B.A. YANKNER et al., Science, Vol. 250, 1990, pp. 279-283, which is cited on page 3 of the specification;

A. TAKASHIMA et al., Proc. Natl. Acad. Sci. USA, Vol. 90, August 1993, pp. 7789-7793, which is cited on page 3 of the specification;

JP HEI 6-329551, together with an English language abstract, which is cited on page 3 of the specification;

WO 98/24782, which is cited on page 4 of the specification;

WO 00/18758, which is cited on page 5 of the specification;

WO 01/70728, which is cited on page 5 of the specification;

WO 01/70729 A1, and family member U.S. Patent No. 6,844,335, which is cited on page 5 of the specification;

EP 0 354 179 A, which is cited on page 28 of the specification;

WO 03/037888 A;

WO 03/027080 A;

Applicants also bring to the attention of the Examiner:

U.S. Patent No. 6,586,441;

U.S. Patent Application Publication No. 2003/0187004 A1;

U.S. Patent No. 4,507,302;

U.S. Patent No. 4,619,933;

EP 0 168 262, accompanied by U.S. family member U.S. Patent No. 4,725,600;

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JP SHO 49-035631

JP SHO 49-35632;

JP SHO 49-035633

JP SHO 49-35634;

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WO 98/24782, accompanied by HU P001698 A and family members U.S. Patent Nos. 6,096,753, 6,410,729 B1, and 6,420,385 B1.

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Chemical Abstracts, Vol. 100, No. 28, 1984, Columbus, Ohio, US, Abstract No. 174768e, M.F. BRANA et al., "Reaction of N-(1-Oxido-4-Pyridylmethyl)-3,5-Dimethylbenzamide with Malononitrile in Acetic Anhydride", page 627; XP002127059;

Chemical Abstracts, Vol. 84, No. 7, 1976, Columbus, Ohio, US, Abstract No. 44112b, Tani et al., "4-Hydroxy-Pyridylpyrimidine Derivatives", Page 502, XP002127060;

Chemical Abstracts, Vol. 82, No. 28, 1975, Columbus, Ohio, US, Abstract No. 171028n, Tani et al., "2,4,5-Trisubstituted-6-Pyridylpyrimidine Derivatives", page 555, XP002127061;

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Harvey I. SKULNICK et al., "Pyrimidinones. 1. 2-Amino-5-Halo-6-Arly-4(3H)-Pyrimidinones. Interferon-Inducing Antiviral Agents", J. Med. Chem., Vol. 28, pp 1864-1869 (1985).

H. YINGLIN, Tetrahedron Letters, Vol. 30, No. 39, 1989, pp. 5285-5286;

H. YINGLIN, Synthesis, pp. 122-124, February 1990;

R.L. DUNCAN Jr. et al., J. Med. Chem., Vol. 13, No. 1, January 1970, pp. 1-6;

D.L. THAI et al., J. Med. Chem., Vol. 41, 1998, pp. 591-601;

HU 218974 B, and English language family member U.S. Patent No. 5,612,286

U.S. Patent No. 6,107,301

Applicants also bring to the Examiner's attention the following applications, which disclose subject matter related to that of the present application:

U.S. Patent Application No. 09/787,426, to WATANABE et al., which is the national stage of PCT/JP99/05224, filed September 24, 1999, which published as WO 00/18758, on April 6, 2000;

U.S. Patent Application No. 10/489,606, to Uehara et al., which published as U.S. 2005/0090490 A1, which is the national stage of PCT/JP2002/09685, filed filed September 20, 2002, which published as WO 03/037888 on May 8, 2003;

U.S. Patent Application No. 10/489,607, to Uehara et al., which published as U.S. 2005/0130967 A1, which is the national stage of PCT/JP02/09684, filed September 20, 2002, which published as WO 03/027080, on April 3, 2003; and

U.S. Patent Application 10/550,299, which published as published as U.S. 2006/0252768 A1, to WATANABE et al. which is the national stage of PCT/JP2004/004320, which published as WO 2004/085408, on October 7, 2004.

Applicants also bring to the attention of the Examiner documents cited by the Examiner in an Office Action mailed in U.S. Patent Application No. 10/550,299:

Anthony R. WEST, Solid State Chemistry and Its Applications", Wiley, New York, 1988 pp. 358 and 365; and

Sudha R. VIPPAGUNTA et al., "Crystalline Solids", Advance Drug Delivery Reviews, Vol. 48, pp. 3-26 (2001).

Applicants also bring to the attention of the Examiner documents cited by the Examiner in Office Actions mailed in previously cited U.S. Patent Application No. 09/787;426:

U.S. Patent No. 6,107,301;

U.S. Patent No. 6,844,335;

U.S. Patent Application Publication No. 2005/0130998 A1;

TANI et al., CAPLUS Abstract 84:44112 (1976);

Joachim ULRICH, Chapter 4: Crystallization, Krik-Othmer Encyclopedia of Chemical Technology (August 2002)

Anthony R. WEST, Solid State Chemistry and Its Applications", Wiley, New York, 1988 pp. 358 and 365; and

Sudha R. VIPPAGUNTA et al., "Crystalline Solids", Advance Drug Delivery Reviews, Vol. 48, pp. 3-26 (2001).

The Examiner is invited to review the related applications.

In accordance with 37 C.F.R 1.98 and the waiver thereof, copies of the U.S. Patents, U.S. Patent Application Publications, and U.S. Patent Applications, are not enclosed herewith. However, if any copies are needed, the Examiner is respectfully requested to contact the undersigned.

Copies of the above-noted documents, except for U.S. Patents, U.S. Patent Application

Publications, and U.S. Patent Application, are enclosed together with a duly completed Form

PTO-1449. The Examiner is accordingly requested to consider each of these documents, and to

make them of record in this application by initialing in the appropriate spaces on the Form PTO-

1449. Applicants respectfully request that the Examiner include a copy of the initialed Form

PTO-1449 with the next communication from the U.S. Patent and Trademark Office.

Applicants note that while this Information Disclosure Statement is being filed more than

three months from the filing date, Applicants have not received an action on the merits from the

U.S. Patent and Trademark Office. Accordingly, consideration of the enclosed document is

required under 37 C.F.R. 1.97(b)(3).

However, if an action on the merits has been mailed prior to the filing date of this

Information Disclosure Statement, Applicants hereby authorizes the charging of any required

fees necessary for consideration of the documents cited herein to Deposit Account No. 19-0089.

Should there be any questions, the Examiner is invited to contact the undersigned at the

below listed telephone number.

Respectfully submitted

yaée H. Bernstein

Keg. No. 29,027

Arnold Turk

Reg. No. 33094

March 12, 2007 GREENBLUM & BERNSTEIN, P.L.C. 1950 Roland Clarke Place Reston, VA 20191

(703) 716-1191

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	17	Igaku no Ayumi, Vol. 158, No. 9, August 31, 1991, pp. 511-514.												
	18	Y. IHARA et al., J. Biochem., Vol. 99, 1986, pp. 1807-1810.												
	19	I. GRUNDKE-IQBAL et al., Proc. Natl. Acad. Sci. USA, Vol. 83, July 1986, pp. 4913-4917.												
	20	Seikagaku, Vol. 64, No. 5, pp. 308												
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DATE CONSIDERED **EXAMINER** 

B.A. YANKNER et al., Science, Vol. 250, 1990, pp. 279-283.

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

A. TAKASHIMA et al., Proc. Natl. Acad. Sci. USA, Vol. 90, August 1993, pp. 7789-7793.

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\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

DATE CONSIDERED

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